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I. PUBLICACIONES (2015 – presente)

Publicaciones en revistas indexadas (ISI)

1. Fadón, E., **Fernandez, E.**, Luedeling, E., & Rodrigo, J. (2023). Agroclimatic requirements and adaptation potential to global warming of Spanish cultivars of sweet cherry (*Prunus avium* L.). *European Journal Of Agronomy*, 145, 126774. <https://doi.org/10.1016/j.eja.2023.126774>
2. **Fernandez, E.**, Mojahid, H., Fadón, E., Rodrigo, J., Ruiz, D., Egea, J. A., Mimoun, M. B., Kodad, O., Yaacoubi, A. E., Ghrab, M., Egea, J., Benmoussa, H., Borgini, N., Elloumi, O., & Luedeling, E. (2023). Climate change impacts on winter chill in Mediterranean temperate fruit orchards. *Regional Environmental Change*, 23(1). <https://doi.org/10.1007/s10113-022-02006-x>
3. **Fernandez E**, Do H, Luedeling E, Luu TTG, Whitney C (2022). Prioritizing farm management interventions to improve climate change adaptation and mitigation outcomes — A case study for banana plantations. *Agronomy for Sustainable Development* 42: 76; doi: 10.1007/s13593-022-00809-0
4. **Fernandez E**, Schiffers K, Urbach C, Luedeling E (2022). Unusually warm winter seasons may compromise the performance of current phenology models — Predicting bloom dates in young apple trees with PhenoFlex. *Agricultural and Forest Meteorology* 322: 109020; doi: 10.1016/j.agrformet.2022.109020
5. del Barrio R, **Fernandez E**, Brendel AS, Whitney C, Campoy JA, Luedeling E (2021). Climate change impacts on agriculture’s southern frontier — Perspectives for farming in North Patagonia. *International Journal of Climatology* 41: 726–742; doi: 10.1002/joc.6649

6. Delgado A, Dapena E, **Fernandez E**, Luedeling E (2021). Climatic requirements during dormancy in apple trees from northwestern Spain — Global warming may threaten the cultivation of high-chill cultivars. *European Journal of Agronomy* 130: 126374; doi: 10.1016/j.eja.2021.126374
7. **Fernandez E**, Caspersen L, Illert I, Luedeling E (2021). Warm winters challenge the cultivation of temperate species in South America — A spatial analysis of chill accumulation. *Climatic Change* 169: 28; doi: 10.1007/s10584021-03276-w
8. **Fernandez E**, Krefting P, Kunz A, Do H, Fadón E, Luedeling E (2021). Boosting statistical delineation of chill and heat periods in temperate fruit trees through multi-environment observations. *Agricultural and Forest Meteorology* 310: 108652; doi: 10.1016/j.agrformet.2021.108652
9. Rojas G, **Fernandez E**, Whitney C, Luedeling E, Cuneo IF (2021). Adapting sweet cherry orchards to extreme weather events — Decision Analysis in support of farmers' investments in central Chile. *Agricultural Systems* 187: 103031; doi: 10.1016/j.agry.2020.103031
10. Buerkert A, **Fernandez E**, Tietjen B, Luedeling E (2020). Revisiting climate change effects on winter chill in mountain oases of northern Oman. *Climatic Change* 162(3): 1399–1417; doi: 10.1007/s10584-020-02862-8
11. Fadón E, **Fernandez E**, Behn H, Luedeling E (2020). A conceptual framework for winter dormancy in deciduous trees. *Agronomy* 10(2): 241; doi: 10.3390/agronomy10020241
12. **Fernandez E**, Luedeling E, Behrend D, van de Vliet S, Kunz A, Fadón E (2020). Mild water stress makes apple buds more likely to flower and more responsive to artificial forcing — Impacts of an unusually warm and dry summer in Germany. *Agronomy* 10(2): 274; doi: 10.3390/agronomy10020274
13. **Fernandez E**, Whitney C, Cuneo IF, Luedeling E (2020). Prospects of decreasing winter chill for deciduous fruit production in Chile throughout the 21st century. *Climatic Change* 159: 423–439; doi: 10.1007/s10584-019-02608-1
14. **Fernandez E**, Whitney C, Luedeling E (2020). The importance of chill model selection — A multi-site analysis. *European Journal of Agronomy* 119:

126103; doi: 10.1016/j.eja.2020.126103

15. Valdebenito D, Laca EA, **Fernandez E**, Saa S (2020). A network of shoots: effects of ontogeny and light availability on growth units in Chandler walnuts. *Trees* 34(1): 177–188; doi: 10.1007/s00468-019-01909-3
16. **Fernandez E**, Cuneo IF, Luedeling E, Alvarado L, Farías D, Saa S (2019). Starch and hexoses concentrations as physiological markers in dormancy progression of sweet cherry twigs. *Trees* 33(4): 1187–1201; doi: 10.1007/s00468-019-01855-0
17. **Fernandez E**, Baird G, Farías D, Oyanedel E, Olaeta JA, Brown P, Zwieniecki M, Tixier A, Saa S (2018). Fruit load in almond spurs define starch and total soluble carbohydrate concentration and therefore their survival and bloom probabilities in the next season. *Scientia Horticulturae* 237: 269–276; doi: 10.1016/j.scienta.2018.04.030
18. Saa S, **Fernandez E**, Muhammad S, Olivos-Del Río A, DeJong TM, Laca E, Brown P (2017). Increases in leaf nitrogen concentration and leaf area did not enhance spur survival and return bloom in almonds (*Prunus dulcis* [Mill.] DA Webb). *Acta Physiologiae Plantarum* 39(4): 107; doi: 10.1007/s11738-017-2401-1

II. EXPERIENCIA EN PROYECTOS DE INVESTIGACION (2015 – presente)

1. Understanding carbohydrate dynamics at the interplay between cold acclimation/deacclimation pathways and dormancy release in sweet cherry as influenced by changing climate conditions.
Financiamiento: FONDECYT Regular
Rol: Co-investigador
Duración: 2023-2027
Año adjudicación: 2023